

Launch Mission Execution Forecast

Falcon 9 NROL-108 Mission:

Issued: 14 Dec 2020 / 0800L (1300Z)

Valid: 17 Dec 2020 / 0900 - 1200L (1400 - 1700Z)



Forecast Discussion: A weak frontal system will move into Central Florida today, bringing in clouds, but only a slight chance of rain. This boundary will linger in the area allowing a wave to develop on it Tuesday, leading to continued mostly cloudy conditions. On Wednesday, the wave will strengthen into a low-pressure area, increasing chances of rain and creating a few isolated thunderstorms. Overnight Wednesday into Thursday morning, strong high-pressure system moving east from southern Texas will finally push the whole system out of the area. Winds will turn northerly and become gusty along the Space Coast as cloud cover slowly clears through the day Thursday. The primary weather concern for Thursday is liftoff winds and the Thick Cloud Layer Rule associated with the lingering frontal cloudiness.

On Friday, cloud cover will be much diminished over the Spaceport, but gusty northeasterly winds will remain due to the strength of the high-pressure area. The primary weather concern Friday is liftoff winds.

	Probability of Violating Weather Constraints								
Day	40% Primary Concerns: Liftoff Winds, Thick Cloud Layer Rule								
ch	Weather Conditions							Additional Risk Criteria	
aunch	Weather/Visi	bility:	None / 7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Moderate
Ĭ	Temp/Humid	ity:	64-70°F / 90-75%	Stratocumulus	Scattered	3,000	7,000	Booster Recovery Weather:	Moderate
	Liftoff Winds	(200'):	330° 17-22 mph	Altocumulus	Broken	10,000	14,000	Solar Activity:	Low
	Probability of Violating Weather Constraints								
			Proba	ability of Vic	olating W	eather	Constra	ints	
)elay	20%	Prima	Proba		olating W	eather	Constra	ints	
	20%	Prima	ary Concerns: Liftof			eather	Constra	Additional Risk Cr	iteria
	20% Weather/Visi		ary Concerns: Liftof	f Winds			Tops (ft)		iteria Moderate
24-Hour Delay		bility:	ary Concerns: Liftof	f Winds Conditions	Clouds			Additional Risk Cr	

Next Forecast Will Be Issued 15 Dec 2020